

Digitized by the Internet Archive
in 2011 with funding from
LYRASIS members and Sloan Foundation; Indiana Department of Transportation

<http://www.archive.org/details/trafficspeedrepo96gada>

TRAFFIC SPEED REPORT NO. 96

TO: J. F. McLaughlin, Director
Joint Highway Research Project

June 23, 1976

File: 8-3-3

FROM: H. L. Michael, Associate Director
Joint Highway Research Project

Project: C-36-10C

The attached Progress Report No. 96 on Traffic Speeds is the report of the January-March quarterly study of free-flowing automobile and truck speeds on rural, tangent, level sections of Interstate, 4-lane and 2-lane and on urban interstate highways in Indiana. The report has been prepared by Mr. A. A. Gadallah, a Graduate Instructor in Research on our staff, under the direction of Professor H. L. Michael. The data were collected by Mr. G. K. Stafford and a number of graduate assistants on our staff.

The results indicate a decrease of about 0.6 mph in the average speed of all passenger cars and heavy trucks to that of the October-December 1975 Study. This decrease occurred largely on 2-lane roads with a slight increase measured on rural interstate highways.

Copies of the report will be sent to the Federal Highway Administration and the ISHC for review, comment and acceptance as fulfillment of the objectives of this HPR Part I Study. Copies of the report are requested for release to the Indiana State Police, the Indiana Traffic Safety Council and the Indiana Office of Traffic Safety as a normal procedure for these reports.

Respectfully submitted,



Harold L. Michael
Associate Director

HLM/ss

cc: W. L. Dolch	M. L. Hayes	C. F. Scholer
R. L. Eskew	K. R. Hoover	M. B. Scott
G. D. Gibson	G. A. Leonards	K. C. Sinha
W. H. Goetz	C. W. Lovell	L. E. Wood
M. J. Gutzwiller	R. D. Miles	E. J. Yoder
G. K. Hallock	P. L. Owens	S. R. Yoder
D. E. Hancher	G. T. Satterly	

1. Report No. JHRP-76-20	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle TRAFFIC SPEED REPORT NO. 96		5. Report Date June 1976	
		6. Performing Organization Code	
7. Author(s) A. A. Gadallah and G. K. Stafford		8. Performing Organization Report No. JHRP-76-20	
9. Performing Organization Name and Address Joint Highway Research Project Civil Engineering Building Purdue University West Lafayette, Indiana 47907		10. Work Unit No.	
		11. Contract or Grant No. HPR-1(13) Part I	
12. Sponsoring Agency Name and Address Indiana State Highway Commission State Office Building 100 North Senate Avenue Indianapolis, Indiana 46204		13. Type of Report and Period Covered Interim Report Jan.-Mar. 1976	
		14. Sponsoring Agency Code	
15. Supplementary Notes Conducted in cooperation with the U.S. Dept. of Transportation, Federal Highway Administration. Planning Study titled "Speed Trends for Indiana Highways".			
16. Abstract This report is another on the continuing study of speeds of vehicles on Indiana Highways. Observations of spot speeds were taken on interstate, four-lane and two-lane highways throughout the state during the months of February and March 1976. Analysis of the speeds showed the overall average speed for all vehicles was 56.8 mph. The overall average speed for passenger cars and all trucks was 57.3 mph and 55.6 mph, respectively. These overall average speeds are 0.6 mph, 0.5 mph and 0.7 mph less for all vehicles, passenger cars, and all trucks, respectively, as compared to the data collected in October-November 1975 (speed report no. 95).			
17. Key Words Speeds, Highway Speeds, Rural Highway Speeds, Speed Trends, 55 mph Speed Effect		18. Distribution Statement No restrictions. This document is available to the public through the National Technical Information Service, Springfield, Virginia 22161.	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages	22. Price

Progress Report
TRAFFIC SPEED REPORT NO. 96

by

A. A. Gadallah
Graduate Instructor in Research

and

George K. Stafford
Traffic Engineering Technician

Joint Highway Research Project

File No.: 3-3-3

Project No.: C-36-10C

Prepared as Part of an Investigation

Conducted by

Joint Highway Research Project
Engineering Experiment Station
Purdue University

in cooperation with the

Indiana State Highway Commission

and the

U. S. Department of Transportation
Federal Highway Administration

The opinions, findings and conclusions expressed in this publication are those of the authors and not necessarily those of the Federal Highway Administration.

Purdue University
West Lafayette, Indiana
June 23, 1976

TRAFFIC SPEED REPORT NO. 96

This report is an analysis of spot speed observations made during February and March 1976. All observations were made of free-flowing vehicles on level, tangent sections of rural and urban highways during daylight and under favorable conditions. Seven stations were studied from the same locations on selected Federal and State highways as used in the previous annual studies.

Stations were classified as two-lane, four-lane, rural interstate, or urban interstate highways. A representative sample of spot speeds was obtained at each station in each classification. The site locations were as follows: (See Figure A)

Rural Interstate Highways

- | | |
|----------|---|
| *1. I-69 | 3.3 miles south of Junction of SR 18 |
| *2. I-65 | 1.0 miles west of Junction of SR 334 |
| 3. I-74 | 1.0 miles east of Junction of Post Road |
| 4. I-65 | 7.5 miles north of Junction of SR 160 |

Four Lane Highways

- | | |
|-------------|---|
| 5. U.S. 31 | 1.2 miles south of Junction of SR 38 |
| *6. U.S. 30 | 2.0 miles east of Junction of SR 49 |
| 7. U.S. 41 | 1.0 miles north of South Junction of SR 2 |
| *8. U.S. 52 | 1.0 miles west of Klondike |

Two Lane Highways

- | | |
|--------------|--------------------------------------|
| *9. U.S. 35 | 1.5 miles east of Junction of I-69 |
| 10. S.R. 43 | 2.0 miles south of Chalmers |
| 11. U.S. 231 | 1.0 mile south of Junction of SR 234 |
| *12. S.R. 25 | 0.7 miles west of Americus |

Urban Interstate Highways

- | | |
|-----------|---------------------|
| 13. I-94 | Near Burr |
| *14. I-65 | East of White River |

*Stations used in this study.

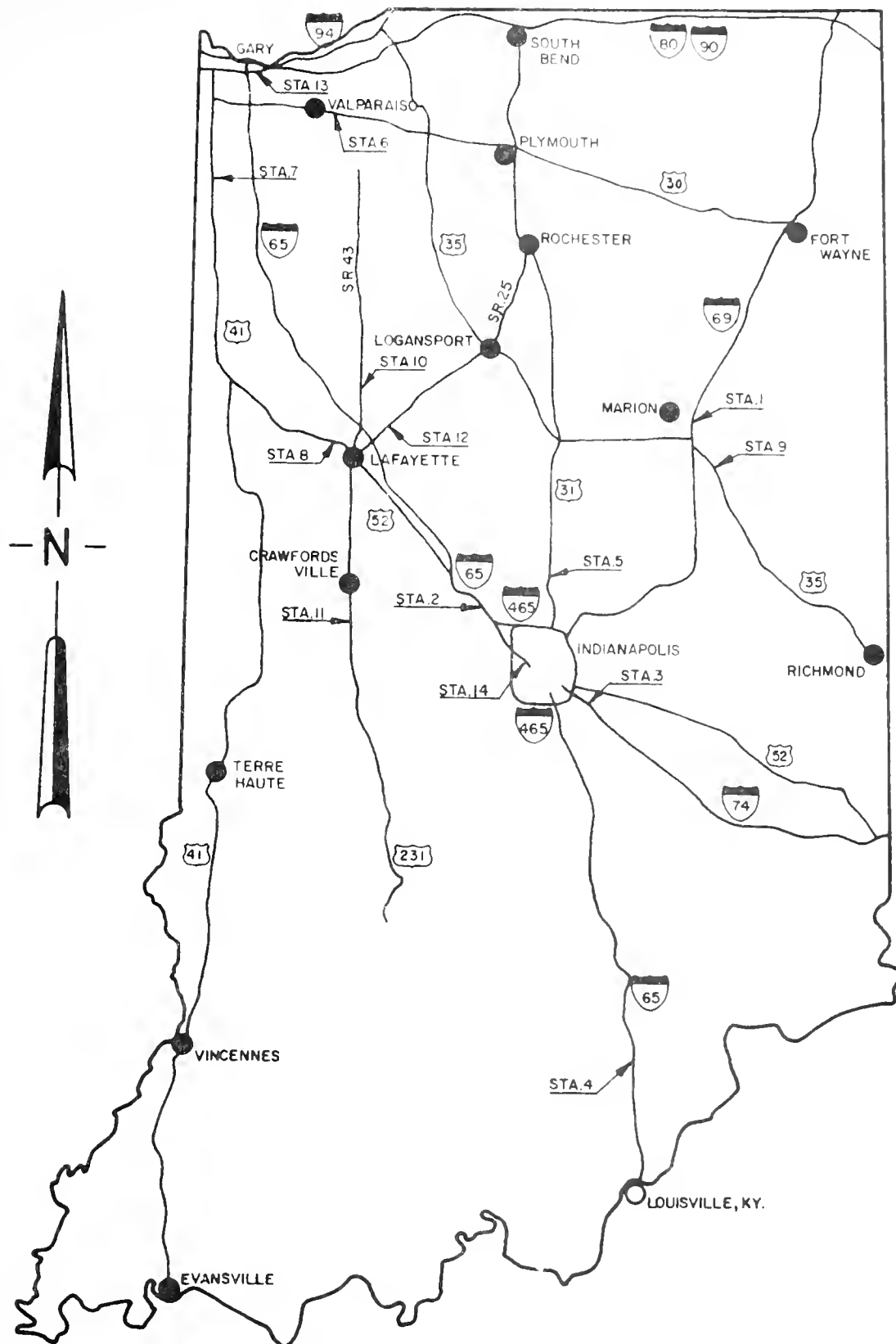


FIGURE A LOCATIONS OF SPEED-STUDY STATIONS

The vehicles were classified as Indiana or Non-Indiana Passenger Cars and Light (less than 5000 lbs. gross weight) or Heavy (equal to or more than 5000 lbs. gross weight) Trucks. The analysis was performed as classified and combined, passenger cars or trucks.

The maximum speed limit in Indiana is 55 miles per hour, both on Interstate and other rural highways.

Equipment and Field Procedure

The observations for this study were obtained by use of an "Electromatic" Radar Speed Meter. The meter was placed approximately four feet from the edge of the pavement at angles less than 10° with the highway center line. No corrections of speeds were necessary at these small angles. At the beginning of the study the accuracy of the meter was checked and any constant discrepancy of readings was corrected accordingly.

RESULTS OF ANALYSIS

The data collected were analyzed and are summarized in Tables 1 to 7 in the Appendix. Tables 8, 9 and 10 summarize the data for rural interstate, four lane and two lane highways, respectively. Table 11 is the summary for all highways. Tables 12 through 19 are summaries in an FHWA format which is desired. The average speed for each classification of vehicles on each type of highway for this study was as follows:

	<u>Interstate</u>		<u>Other</u>	
	<u>Urban</u>	<u>Rural</u>	<u>Four Lane</u>	<u>Two Lane</u>
<u>Passenger Cars:</u>				
Indiana	57.2	57.4	57.7	56.4
Non-Indiana	57.5	58.0	58.6	55.9
All Passenger Cars	57.2	57.5	57.8	56.4
85 Percentile (all)	61.0	61.8	62.2	60.5
<u>Trucks:</u>				
Less than 5000 lbs.	57.0	56.5	57.0	55.2
5000 lbs. or more	54.4	56.7	54.9	53.4
<u>All Vehicles:</u>				
Average	56.9	57.3	57.4	55.8
85 Percentile	60.6	61.5	61.9	59.9

The percent of vehicles exceeding the speed limit (55 mph) for each classification of vehicle and each type of highway was as follows:

	<u>Interstate</u>		<u>Other</u>	
	<u>Urban</u>	<u>Rural</u>	<u>Four Lane</u>	<u>Two Lane</u>
<u>Passenger Cars:</u>				
Indiana	67.0	66.5	68.3	56.2
Non-Indiana	61.3	71.7	78.4	50.0
All Passenger Cars	66.5	67.9	69.7	55.6
<u>Trucks:</u>				
Less than 5000 lbs.	68.6	54.6	61.0	45.4
5000 lbs. or more	55.8	53.4	49.5	44.0
<u>All Vehicles:</u>	65.4	64.6	66.3	51.4

The percent of vehicles traveling more than 5 mph above the speed limit (exceeding 60 mph) for each case was as follows:

	<u>Interstate</u>		<u>Other</u>	
	<u>Urban</u>	<u>Rural</u>	<u>Four Lane Rural</u>	<u>Two Lane Rural</u>
<u>Passenger Cars:</u>				
Indiana	19.9	23.1	29.0	16.5
Non-Indiana	22.6	25.6	34.0	14.8
All Passenger Cars	20.1	23.8	29.7	16.4
<u>Trucks:</u>				
Less than 5000 lbs.	17.2	17.6	27.6	13.8
5000 lbs. or more	3.9	23.3	11.9	6.0
<u>All Vehicles:</u>	18.0	22.9	27.4	14.8

The percent of vehicles traveling more than 10 miles per hour above the speed limit (exceeding 65 mph) for each case was as follow:

	<u>Interstate</u>		<u>Other</u>	
	<u>Urban</u>	<u>Rural</u>	<u>Four Lane Rural</u>	<u>Two Lane Rural</u>
<u>Passenger Cars:</u>				
Indiana	2.9	5.0	6.9	4.9
Non-Indiana	0.0	5.6	4.1	1.9
All Passenger Cars	2.7	5.1	6.5	4.6
<u>Trucks:</u>				
Less than 5000 lbs.	5.7	2.8	10.6	2.6
5000 lbs. or more	0.0	4.9	2.0	1.0
<u>All Vehicles:</u>	2.6	4.8	6.5	3.9

Summary and Conclusions

The overall average speed for all vehicles and passenger cars in this study was found to be 56.8 mph and 57.3 mph, respectively. The overall average speeds for heavy trucks and for all trucks were found to be 54.9 mph and 55.6 mph, respectively. These overall average speeds are 0.6 mph, 0.5 mph, and 0.7 mph less for all vehicles, passenger cars, and all trucks, respectively, than the results of October-November 1975.

Table A presents a comparison of the overall speed results with that of the previous two studies. The 85th percentile speed of passenger cars was about the same as that of the October-November 1975 study on all highways, and decreased 1.9 mph from the July-September 1975 annual speed study to 61.5 mph.

A comparison of February-March 1976 speed data with that for other recent periods for several types of highway for passenger cars and trucks is shown in Tables B, C and D. The data for the May-June 1975, October-November 1975 and February-March 1976 periods are for only a portion of the stations.

The reduction in the average speeds and 85th percentile speeds occurred mainly on two-lane highways (as compared to the October-November 1975 study). On the other four-lane highways a slight decrease occurred for the average speeds and the 85th percentile speeds. However, a slight increase occurred for the average speeds and the 85th percentile speeds on interstate highways.

TABLE A
COMPARISON OF THE OVERALL SPEED RESULTS

	<u>Feb.-March 1976</u>	<u>Oct.-Nov. 1975</u>	<u>July-Sept. 1975</u>
<u>Average:</u>			
All Passenger Cars	57.3	57.8	58.7
Heavy Trucks	54.9	56.3	57.4
All Trucks	55.6	56.3	57.4
<u>85 Percentile:</u>			
All Passenger Cars	61.5	61.8	63.4
Heavy Trucks	59.5	60.5	62.5
All Trucks	60.2	60.7	62.5
<u>15 Percentile:</u>			
Heavy Trucks	49.3	51.2	51.5

TABLE B
AVERAGE SPEEDS ON INTERSTATE HIGHWAYS (RURAL)

	<u>Feb.-March 1976</u>	<u>Oct.-Nov. 1975</u>	<u>July-Sept. 1975</u>	<u>May-June 1975</u>
<u>Passenger Cars:</u>				
Indiana	57.4	56.8	59.7	57.4
Non-Indiana	58.0	57.1	60.2	57.4
All Passenger Cars	57.5	56.9	59.9	57.4
85 Percentile (all)	61.8	60.4	64.2	60.9
<u>Trucks:</u>				
Less than 5000 lbs.	56.5	55.9	58.2	56.6
5000 lbs. or more	56.7	56.5	59.3	56.7

TABLE C
AVERAGE SPEEDS ON OTHER FOUR-LANE HIGHWAYS

	<u>Feb.-March 1976</u>	<u>Oct.-Nov. 1975</u>	<u>July-Sept. 1975</u>	<u>May-June 1975</u>
<u>Passenger Cars:</u>				
Indiana	57.7	58.2	57.6	58.6
Non-Indiana	58.6	58.7	58.1	58.4
All Passenger Cars	57.8	58.3	57.7	58.6
85 Percentile (all)	62.2	62.3	62.0	63.3
<u>Trucks:</u>				
Less than 5000 lbs.	57.0	56.0	56.4	56.9
5000 lbs. or more	54.9	55.7	55.9	55.4

TABLE D
AVERAGE SPEEDS ON TWO-LANE HIGHWAYS

	<u>Feb.-March 1976</u>	<u>Oct.-Nov. 1975</u>	<u>July-Sept. 1975</u>	<u>May-June 1975</u>
<u>Passenger Cars:</u>				
Indiana	56.4	57.5	57.2	57.1
Non-Indiana	55.9	57.1	57.4	57.7
All Passenger Cars	56.4	57.4	57.8	57.1
85 Percentile (all)	60.5	62.5	62.5	62.3
<u>Trucks:</u>				
Less than 5000 lbs.	55.2	56.4	57.5	55.6
5000 lbs. or more	53.4	55.4	56.2	53.6

APPENDIX A

Speed Data (Tables 1 to 11)

TABLE 1 SPEED DATA

Station 1 Highway I-69 Location 3.3 miles south of Junction of SR 18
 No. of Lanes 4 Type of Surface Portland Cement Concrete Weather Clear
 This Observation Last Previous Observation (Speed Report No. 94)*
 Date 3/23/76 Date 8/27/75
 Time 2:22 - 4:37 PM Time 11:40 - 1:55 PM

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.	288	322	174	215	114	107	112	103	28	52	84	51
Ave. speed (m.p.h.)	58.59	57.44	58.75	57.28	58.35	57.75	57.77	56.64	56.64	55.94	58.14	57.35
Standard deviation	4.480	4.294	4.685	4.540	4.156	3.752	4.364	4.627	4.030	3.632	4.429	5.403
24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44 m.p.h.	0.0	0.31	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49 m.p.h.	1.39	2.17	1.15	2.79	1.75	0.93	2.68	3.88	3.57	1.92	2.38	5.88
54 m.p.h.	16.67	22.67	16.67	23.72	16.67	20.56	20.54	33.98	32.14	36.54	16.67	31.37
59 m.p.h.	60.07	72.67	58.62	74.88	62.28	68.22	67.86	74.76	82.14	84.62	63.10	64.71
64 m.p.h.	92.01	95.65	90.23	95.81	94.74	95.33	93.75	94.17	100.0	100.0	91.67	88.24
69 m.p.h.	98.26	99.07	97.70	99.07	99.12	99.07	99.11	99.03	100.0	100.0	98.81	98.04
74 m.p.h.	99.65	99.38	99.43	99.07	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 m.p.h.	100.0	99.69	100.0	99.53	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
No. of vehicles obs.	141	156	88	104	53	52	56	55	12	30	44	25
Average speed	59.16	59.21	59.15	59.28	59.17	59.06	58.23	58.62	56.92	56.77	58.59	60.84
No. of vehicles obs.	147	166	86	111	61	55	56	48	16	22	40	26
Average speed	58.05	55.78	58.34	55.41	57.64	56.51	57.30	54.38	56.44	54.82	57.65	54.00

* Annual traffic speed study.

TABLE 2 SPEED DATA

Station 2 Highway I-65 Location 1.0 miles west of Junction of SR 334
 No. of Lanes 4 Type of Surface Portland Cement Concrete Weather Hazy (dry)
 This Observation
 Date 2/10/76 Last Previous Observation (Speed Report No. 94)
 Time 11:07 - 1:25 PM Date 9/18/75
 Time 10:00 - 2:55 PM

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.	296	339	165	266	131	73	131	108	31	56	100	52
Ave. speed (m.p.h.)	60.80	57.65	60.42	57.47	61.27	58.27	59.70	56.47	58.68	56.93	60.02	55.98
Standard deviation	4.680	5.168	4.580	5.233	4.778	4.908	4.736	4.833	4.874	5.073	4.671	4.557
24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44 m.p.h.	0.34	0.29	0.0	0.38	0.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49 m.p.h.	2.03	4.72	3.03	5.64	0.76	1.37	1.53	6.48	3.23	5.36	1.00	7.69
54 m.p.h.	7.77	29.79	7.88	31.20	7.63	24.66	12.98	36.11	16.13	32.14	12.00	40.38
59 m.p.h.	36.49	63.72	39.39	65.04	32.82	58.90	47.33	70.37	54.84	69.64	45.00	71.15
64 m.p.h.	80.74	92.04	83.64	92.48	77.10	90.41	86.26	96.30	90.32	92.86	85.00	100.0
69 m.p.h.	96.62	97.94	96.36	97.74	96.95	98.63	96.95	99.07	96.77	98.21	97.00	100.0
74 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
No. of vehicles obs.	148	158	90	121	58	37	57	60	8	33	49	27
Average speed	60.58	59.08	60.28	58.65	61.05	60.46	59.89	58.37	57.62	58.39	60.27	58.33
No. of vehicles obs.	148	181	75	145	73	36	74	48	23	23	51	25
Average speed	61.02	56.40	60.60	56.49	61.45	56.03	59.55	54.10	59.04	54.83	59.78	53.44

All Vehicles

End End

TABLE 3 SPEED DATA

Station 6 Highway US 30 Location 2.0 miles east of Junction of SR 49 Weather Cloudy

No. of Lanes 4 Type of Surface Asphalt Concrete Last Previous Observation (Speed Report No. 95)

This Observation
 Date 3/18/76
 Time 10:55 - 2:10 PM
 Date 9/17/75
 Time 10:46 - 1:46 PM

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.	287	312	197	234	90	78	134	111	32	60	102	51
Ave. speed (m.p.h.)	58.65	58.22	58.36	58.04	59.08	58.76	58.01	57.02	57.50	57.58	58.18	56.35
Standard deviation	4.624	4.389	4.979	4.494	3.721	4.039	4.814	4.967	6.520	5.146	4.166	4.711
24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0	3.13	0.9	0.0	0.0
44 m.p.h.	0.35	0.0	0.51	0.0	0.0	0.0	1.49	0.0	6.25	0.0	0.0	0.0
49 m.p.h.	3.83	2.56	5.08	2.99	1.11	1.28	5.97	7.21	9.38	3.33	4.90	11.76
54 m.p.h.	16.03	19.23	18.78	20.09	10.00	16.67	20.15	29.73	28.13	31.67	17.65	27.45
59 m.p.h.	58.54	62.82	60.41	66.24	54.44	52.56	58.21	72.97	56.25	68.33	58.82	78.43
64 m.p.h.	89.90	93.59	88.83	93.59	92.22	93.59	92.54	92.79	87.50	90.00	94.12	96.08
69 m.p.h.	99.30	99.68	99.49	99.57	98.89	100.0	100.0	98.20	100.0	96.67	100.0	100.0
74 m.p.h.	99.65	100.0	99.49	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
No. of vehicles obs.	142	153	83	115	59	38	75	58	18	32	57	26
Average speed	58.73	58.80	58.51	58.62	59.05	59.37	57.92	57.95	57.39	58.97	58.09	56.69
No. of vehicles obs.	145	159	114	119	31	40	59	53	14	28	45	25
Average speed	58.57	57.66	58.42	57.49	59.13	58.17	58.14	56.00	67.64	56.00	58.29	56.00

All Vehicles

Bnd Bnd

TABLE 4 SPEED DATA

Station 8 Highway U.S. 52 Location 1.0 miles west of Klondike Weather Partly Cloudy
 No. of Lanes 4 Type of Surface Asphalt Concrete
 This Observation Last Previous Observation (Speed Report No. 94)
 Date 3/26/76 Date 8/21/75
 Time 8:53 - 1:10 Time 9:00 - 1:05 PM

	OBSERVATION	PASSENGER CARS						TRUCKS					
		All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
		Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
All Vehicles	No. of vehicles obs.	287	368	236	349	51	19	132	113	79	63	53	50
	Ave. speed (m.p.h.)	56.22	57.49	56.06	57.45	56.92	58.16	54.54	55.07	56.28	56.37	51.94	53.44
	Standard deviation	5.548	5.482	5.593	5.467	5.329	5.862	7.638	6.676	6.708	7.285	8.247	5.463
	24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	1.52	1.77	0.0	3.17	3.77	0.0
	39 m.p.h.	0.70	0.0	0.85	0.0	0.0	0.0	3.79	1.77	0.0	3.17	9.43	0.0
	44 m.p.h.	1.74	1.09	2.12	1.15	0.0	0.0	7.58	6.19	2.53	3.17	15.09	10.00
	49 m.p.h.	11.15	6.52	11.44	6.59	9.80	5.26	22.73	15.93	16.46	15.87	32.08	16.00
	54 m.p.h.	36.59	29.08	36.86	29.23	35.29	26.32	49.24	46.02	40.51	38.10	62.26	56.00
	59 m.p.h.	74.91	66.03	76.27	66.19	68.63	63.16	78.79	75.22	75.95	65.08	83.02	88.00
	64 m.p.h.	93.97	90.49	93.22	91.12	96.08	78.95	91.67	91.15	88.61	85.71	96.23	98.00
# of vehicles traveling at or less than	69 m.p.h.	99.30	98.10	99.58	98.28	98.04	94.74	96.21	100.0	94.94	100.0	98.11	100.0
	74 m.p.h.	99.65	100.0	99.58	100.0	100.0	100.0	99.24	100.0	98.73	100.0	100.0	100.0
	79 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	84 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	89 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Bnd	No. of vehicles obs.	147	205	120	195	27	10	56	56	37	31	19	25
	Average speed	58.01	58.62	57.75	58.57	59.15	59.70	57.20	56.50	57.89	58.03	55.84	54.60
Bnd	No. of vehicles obs.	140	163	116	154	24	9	76	57	42	32	34	25
	Average speed	54.34	56.06	54.32	56.03	54.42	56.44	52.58	53.67	54.86	54.75	49.76	52.28

TABLE 5 SPEED DATA

Station 9 Highway U.S. 35 Location 1.5 miles east of Junction of I-69
 No. of Lanes 2 Type of Surface Asphalt Concrete Weather Clear
 This Observation Last Previous Observation (Speed Report No. 94)
 Date 3/23/76 Date 8/27/75
 Time 10:40 - 1:40 PM Time 2:40 - 4:20 PM

	OBSERVATION	PASSENGER CARS						TRUCKS					
		All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
		Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
All Vehicles	No. of vehicles obs.	287	310	257	270	30	40	123	126	64	76	59	50
	Ave. speed (m.p.h.)	56.97	56.05	57.05	56.06	56.20	56.00	56.22	53.66	56.42	54.54	56.00	52.32
	Standard deviation	5.843	5.466	5.861	5.398	5.732	5.979	5.427	5.533	5.474	5.639	5.414	5.137
	24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	39 m.p.h.	0.0	0.32	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	44 m.p.h.	2.44	1.29	2.33	0.74	3.33	5.00	1.63	7.94	1.56	6.58	1.69	10.0
	49 m.p.h.	5.57	8.71	5.84	8.15	3.33	12.50	9.76	18.25	9.38	14.47	10.17	24.0
	54 m.p.h.	35.19	37.74	33.46	37.78	50.00	37.50	34.96	55.56	29.69	48.68	40.68	66.0
	59 m.p.h.	73.17	80.97	72.76	81.48	76.67	77.50	78.86	87.30	85.94	84.21	71.19	92.0
	64 m.p.h.	91.29	93.23	91.44	93.33	90.00	92.50	94.31	97.62	95.31	96.05	93.22	100.0
% of vehicles traveling at or less than	69 m.p.h.	96.86	97.42	96.89	97.41	96.67	97.50	98.37	99.21	96.88	98.68	100.0	100.0
	74 m.p.h.	99.65	99.35	99.61	99.26	100.0	100.0	99.19	100.0	98.44	100.0	100.0	100.0
	79 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	84 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	89 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Bnd	No. of vehicles obs.	140	152	125	127	15	25	69	69	40	44	29	25
	Average speed	55.50	57.29	55.76	57.18	53.33	57.84	55.78	55.04	55.87	56.41	55.66	52.64
	No. of vehicles obs.	147	158	132	143	15	15	54	57	24	32	30	25
Bnd	Average speed	58.36	54.85	58.28	55.06	59.07	52.93	56.78	51.98	57.33	51.97	56.33	52.00

TABLE 6 SPEED DATA

Station 12 Highway S.R. 25 Location 0.7 miles west of Americus Weather Hazy
 No. of Lanes 2 Type of Surface Asphalt Concrete
 This Observation Last Previous Observation (Speed Report No. 94)
 Date 2/19/76 Date 8/21/75
 Time 11:00 - 1:40 PM Time 2:00 - 4:10 PM

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.	288	319	266	305	22	14	124	126	69	76	55	50
Ave. speed (m.p.h.)	57.30	56.66	57.25	56.70	57.91	55.79	55.72	55.25	57.14	55.80	53.93	54.40
Standard deviation	4.475	4.740	4.492	4.802	4.308	3.118	5.376	4.754	5.342	5.004	4.902	4.257
24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 m.p.h.	0.0	0.31	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39 m.p.h.	0.35	0.31	0.38	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44 m.p.h.	0.69	0.94	0.75	0.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49 m.p.h.	2.43	3.13	2.63	3.28	0.0	0.0	1.61	0.79	1.45	1.32	1.82	0.0
54 m.p.h.	25.69	34.17	26.32	34.43	18.18	28.57	39.52	48.41	27.54	42.11	54.55	58.00
59 m.p.h.	73.26	78.68	73.31	78.36	72.73	85.71	75.00	83.33	66.67	80.26	85.45	88.00
64 m.p.h.	93.06	95.61	93.61	95.41	86.36	100.0	95.16	96.83	92.75	96.05	98.18	98.00
69 m.p.h.	99.65	98.75	99.62	98.69	100.0	100.0	99.19	99.21	98.55	98.68	100.0	100.0
74 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
No. of vehicles obs.	145	174	134	165	11	9	57	58	29	33	28	25
Average speed	57.25	56.45	57.37	56.48	55.82	55.89	57.04	56.43	58.34	56.88	55.68	55.84
No. of vehicles obs.	143	145	132	140	11	5	67	68	40	43	27	25
Average speed	57.36	56.90	57.14	56.95	60.00	55.60	54.60	54.24	56.27	54.98	52.11	52.96
All Vehicles												
End												
End												

TABLE 7 SPEED DATA

Station 14 Highway I-65 Location East of White River Weather Pt. Sunny
 No. of Lanes 4 Type of Surface Portland Cement Concrete
 This Observation Last Previous Observation (Speed Report No. 94)
 Date 3/19/76 Date 9/18/75
 Time 11:02 - 12:53 PM Time 10:32 - 12:35 PM

	OBSERVATION	PASSENGER CARS						TRUCKS					
		All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
		Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
All Vehicles	No. of vehicles obs.	390	373	369	342	21	31	111	87	54	35	57	52
	Ave. speed (m.p.h.)	59.25	57.21	59.20	57.18	60.14	57.52	57.37	55.40	57.69	56.97	57.07	54.35
	Standard deviation	4.915	4.164	4.929	4.187	4.683	3.957	5.452	4.644	5.351	4.409	5.577	4.537
	24 m.p.h. or less	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	29 m.p.h. or less	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	34 m.p.h. or less	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	39 m.p.h. or less	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	44 m.p.h. or less	0.26	0.0	0.27	0.0	0.0	0.0	0.90	1.15	1.85	0.0	0.0	1.92
	49 m.p.h. or less	1.79	1.61	1.90	1.75	0.0	0.0	0.31	11.49	3.70	2.86	8.77	17.31
	54 m.p.h. or less	14.87	25.47	15.18	25.15	9.52	29.03	27.93	33.33	24.07	22.86	31.58	40.38
	59 m.p.h. or less	55.64	72.39	56.37	72.81	42.86	67.74	66.67	86.21	64.81	74.29	68.42	94.23
	64 m.p.h. or less	87.44	96.78	87.80	96.49	80.95	100.0	90.99	97.70	90.74	94.29	91.23	100.0
Bnd	69 m.p.h. or less	97.95	99.20	97.83	99.12	100.0	100.0	98.20	100.0	98.15	100.0	98.25	100.0
	74 m.p.h. or less	99.23	99.73	99.19	99.71	100.0	100.0	98.20	100.0	98.15	100.0	98.25	100.0
	79 m.p.h. or less	99.49	100.0	99.46	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	84 m.p.h. or less	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Bnd	89 m.p.h. or less	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	No. of vehicles obs.	182	197	171	183	11	14	55	49	24	23	31	26
	Average speed	59.24	57.75	59.20	57.72	59.73	58.07	57.02	55.55	58.13	57.13	56.16	54.15
	No. of vehicles obs.	208	176	198	159	10	17	56	38	30	12	26	26
Bnd	Average speed	59.27	56.61	59.20	56.56	60.60	57.06	57.71	55.21	57.33	56.67	58.15	54.54

TABLE 8 SPEED DATA

Station 1,2 _____	Interstate _____	Location See individual _____	Weather _____
No. of Lanes _____	Highway Rural _____	Type of Surface _____	
This Observation _____	Date _____	Last Previous Observation (Speed Report No.94) _____	
Date _____	Time _____	Date _____	
Time _____		Time _____	

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.	1155	661	672	481	483	180	468	211	162	108	306	103
Ave. speed (m.p.h.)	59.94	57.54	59.73	57.39	60.23	57.96	58.89	56.55	58.17	56.45	59.27	56.66
Standard deviation	4.821	4.760	4.827	4.931	4.802	4.254	4.606	4.723	4.591	4.446	4.575	5.017
24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44 m.p.h.	0.09	0.30	0.0	0.42	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49 m.p.h.	1.30	3.48	1.49	4.37	1.04	1.11	1.92	5.21	3.09	3.70	1.31	6.80
54 m.p.h.	11.34	26.32	12.20	27.86	10.14	22.22	15.60	35.07	18.52	34.26	14.05	35.92
59 m.p.h.	47.19	68.08	49.55	69.44	43.89	64.44	56.84	72.51	64.20	76.85	52.94	67.96
64 m.p.h.	84.59	93.80	86.16	93.97	82.40	93.33	88.68	95.26	91.36	96.30	87.25	94.17
69 m.p.h.	96.97	98.49	96.88	98.34	97.10	98.89	98.29	99.05	98.77	99.07	98.04	99.03
74 m.p.h.	99.39	99.70	99.26	99.58	99.59	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 m.p.h.	99.91	99.85	99.85	99.79	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 m.p.h.	99.91	100.0	99.85	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

All Vehicles

of vehicles
traveling at or less
than

TABLE 9 SPEED DATA

Station 6,8 Highway 4-lane, rural Location See individual stations

No. of Lanes _____ Type of Surface _____ Weather _____

This Observation _____ Last Previous Observation (Speed Report No. 94) _____

Date _____ Date _____

Time _____ Time _____

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.	1143	680	887	583	256	97	490	224	186	123	304	101
Ave. speed (m.p.h.)	57.66	57.82	57.55	57.69	58.07	58.64	56.06	56.04	56.37	56.96	55.87	54.91
Standard deviation	5.494	5.020	5.609	5.103	5.067	4.426	6.523	5.959	6.687	6.337	6.425	5.278
24 m.p.h.	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.61	0.89	0.0	1.63	0.99	0.0
39 m.p.h.	0.26	0.0	0.23	0.0	0.39	0.0	2.45	0.89	2.15	1.63	2.63	0.0
44 m.p.h.	1.40	0.59	1.47	0.69	1.17	0.0	4.90	3.13	4.30	1.63	5.26	4.95
49 m.p.h.	6.47	4.71	7.10	5.15	4.30	2.06	13.88	11.61	13.98	9.76	13.82	13.86
54 m.p.h.	25.28	24.56	25.82	25.56	23.44	18.56	36.53	37.95	38.17	34.96	35.53	41.58
59 m.p.h.	65.27	64.56	66.29	66.21	61.72	54.64	69.30	74.11	68.82	66.67	70.39	83.17
64 m.p.h.	91.16	91.91	91.54	92.11	89.84	90.72	93.06	91.96	90.32	87.80	94.74	97.03
69 m.p.h.	98.51	98.82	98.42	98.80	98.83	98.97	98.16	99.11	97.31	98.37	98.68	100.0
74 m.p.h.	99.65	100.0	99.55	100.0	100.0	100.0	99.80	100.0	99.46	100.0	100.0	100.0
79 m.p.h.	99.83	100.0	99.77	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 m.p.h.	99.91	100.0	99.89	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 m.p.h.	99.91	100.0	99.89	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

All Vehicles

of vehicles
traveling at or less
than

TABLE 10 SPEED DATA

Station 9,12 Highway 2-lane, rural Location See individual stations Weather _____

No. of Lanes _____ Type of Surface _____

This Observation _____ Last Previous Observation (Speed Report No. 94) _____

Date _____ Date _____

Time _____ Time _____

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.	1140	629	1019	575	121	54	476	252	240	152	236	100
Ave. speed (m.p.h.)	57.76	56.36	57.80	56.39	57.42	55.94	56.88	54.45	57.52	55.17	56.22	53.36
Standard deviation	5.460	5.116	5.512	5.096	5.006	5.357	6.125	5.209	6.257	5.351	5.931	4.808
24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 m.p.h.	0.0	0.16	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39 m.p.h.	0.18	0.32	0.20	0.35	0.0	0.0	0.21	0.0	0.42	0.0	0.0	0.0
44 m.p.h.	1.14	1.11	1.18	0.87	0.83	3.70	1.89	4.37	1.67	3.95	2.12	5.00
49 m.p.h.	4.74	5.88	5.00	5.57	2.48	9.26	10.92	14.68	10.42	11.84	11.44	19.00
54 m.p.h.	27.37	35.93	26.89	36.00	31.40	35.19	32.56	51.98	25.83	45.39	39.41	62.00
59 m.p.h.	66.93	79.81	66.14	79.83	73.55	79.63	69.54	85.32	68.75	82.24	70.34	90.00
64 m.p.h.	90.18	94.44	90.09	90.43	90.91	94.44	90.76	97.22	90.83	96.05	90.68	99.00
69 m.p.h.	97.89	98.09	98.04	98.09	96.69	98.15	97.48	99.21	96.25	98.68	98.73	100.0
74 m.p.h.	99.56	99.68	99.51	99.65	100.0	100.0	99.16	100.0	98.33	100.0	100.0	100.0
79 m.p.h.	99.91	100.0	99.90	100.0	100.0	100.0	99.79	100.0	99.58	100.0	100.0	100.0
84 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
All Vehicles	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

of vehicles
traveling at or less
than

TABLE 11 SPEED DATA

Station 1-14	Highway Indiana system	Location	See individual stations	Weather
No. of Lanes	Type of Surface			
This Observation		Last Previous Observation (Speed Report No. 94)		
Date		Date		
Time		Time		

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.	4140	2343	3119	1981	1021	362	1654	774	665	418	989	356
Ave. speed (m.p.h.)	58.72	57.25	58.48	57.15	59.46	57.80	57.44	55.59	57.47	56.18	57.42	54.90
Standard deviation	5.15	4.878	5.417	4.936	4.922	4.519	5.809	5.315	5.927	5.422	5.735	5.109
24 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 m.p.h.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 m.p.h.	0.0	0.04	0.0	0.05	0.0	0.0	0.18	0.26	0.0	0.48	0.30	0.0
39 m.p.h.	0.12	0.09	0.13	0.10	0.10	0.0	0.79	0.26	0.75	0.48	0.81	0.0
44 m.p.h.	0.77	0.55	0.87	0.56	0.49	0.55	2.06	2.45	1.95	1.91	2.12	3.09
49 m.p.h.	3.72	4.18	4.33	4.49	1.86	2.49	8.22	10.85	8.72	8.37	7.89	13.76
54 m.p.h.	19.57	28.25	21.03	29.08	15.08	23.76	26.90	41.21	26.47	37.56	27.20	45.51
59 m.p.h.	57.46	70.89	59.86	72.08	50.15	64.36	63.78	78.68	66.17	75.60	62.18	82.30
64 m.p.h.	87.90	93.90	88.84	93.99	85.01	93.37	91.05	95.22	90.98	93.54	91.10	97.19
69 m.p.h.	97.75	98.59	97.76	98.54	97.75	98.90	98.13	99.22	97.44	98.80	98.58	99.72
74 m.p.h.	99.47	99.79	99.36	99.75	99.80	100.0	99.58	100.0	99.10	100.0	99.90	100.0
79 m.p.h.	99.83	99.96	99.78	99.95	100.0	100.0	99.94	100.0	99.85	100.0	100.0	100.0
84 m.p.h.	99.95	100.0	99.94	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 m.p.h.	99.98	100.0	99.97	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

All Vehicles

% of vehicles
traveling at or less
than

APPENDIX B

Speed Data Summary as Furnished FHWA
For Quarterly Speed Monitoring
(Tables 12 to 19)

TABLE 12

Monitoring of Speed
(Statistical Summary)☒ Quarterly Report--Calendar Quarter Ending March 31, 1976

or

☐ Annual Report--Year Ending _____*Mileage not yet reduced by
mileage with less than 55 mph
limitSTATE Indiana

	Miles *	Number of Monitor Locations	Number of Vehicles Measured	Duration of Measurement Session (Hours)	Average Speed (MPH)	Median Speed (MPH)	85th Percentile Speed (MPH)	Percent of Motorists Exceeding		
								55 MPH	60 MPH	65 MPH
Interstate Urban	223	1	460	2 hours each site	56.9	56.3	60.6	65	18	3
Interstate Rural	849	2	872	2 hours each site	57.3	56.7	61.5	65	23	5
Multi-lane, Divided	688	2	904	2 hours each site	57.4	56.9	61.9	66	27	7
Multi-lane, Undivided	--	--	--	--	--	--	--	--	--	--
2-Lane, Rural	8791	2	881	2 hours each site	55.8	55.2	59.9	51	15	4
State Total	10551	7	3117	14 hours	--	--	--	--	--	--

TABLE 13

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	Interstate, Urban
STATION NUMBER 14	LOCATION I-65 (East of White River)
NUMBER OF SESSIONS 1	DATES 3/19/76 VEHICLES MEASURED 460
AVERAGE SPEED (MPH)	56.9 STANDARD DEVIATION (MPH) 4.3
MEDIAN SPEED (MPH)	56.3 85TH PERCENTILE SPEED (MPH) 60.6
PERCENTAGE OF VEHICLES EXCEEDING:	
55 MPH:	65 60 MPH: 18 65 MPH: 3

TABLE 14

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	Interstate, Rural		
STATION NUMBER	1	LOCATION	I-69 (3.3 miles south of Junction of SR 18)
NUMBER OF SESSIONS	1	DATES	3/23/76
		VEHICLES MEASURED	425
AVERAGE SPEED (MPH)	57.2	STANDARD DEVIATION (MPH)	4.4
MEDIAN SPEED (MPH)	56.6	85TH PERCENTILE SPEED (MPH)	60.2
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH:	66	60 MPH:	19
		65 MPH:	4

TABLE 15

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	Interstate, Rural		
STATION NUMBER	2	LOCATION	I-65 (1.0 mile west of Junction of SR 334)
NUMBER OF SESSIONS	1	DATES	2/10/76
		VEHICLES MEASURED	447
AVERAGE SPEED (MPH)	57.4	STANDARD DEVIATION (MPH)	5.1
MEDIAN SPEED (MPH)	56.9	85TH PERCENTILE SPEED (MPH)	62.1
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH:	63	60 MPH:	26
		65 MPH:	6

TABLE 16

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Multi-lane, Divided (Rural)

STATION NUMBER 6 LOCATION U.S. 30 (2.0 miles east of Junction of SR 49)

NUMBER OF SESSIONS 1 DATES 3/18/76 VEHICLES MEASURED 423

AVERAGE SPEED (MPH) 57.9 STANDARD DEVIATION (MPH) 4.6

MEDIAN SPEED (MPH) 57.4 85TH PERCENTILE SPEED (MPH) 61.8

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 73 60 MPH: 29 65 MPH: 5

TABLE 17

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Multi-lane, Divided (Rural)

STATION NUMBER 8 LOCATION U.S. 52 (1.0 mile west of Klondike)

NUMBER OF SESSIONS 1 DATES 3/26/76 VEHICLES MEASURED 481

AVERAGE SPEED (MPH) 56.9 STANDARD DEVIATION (MPH) 5.9

MEDIAN SPEED (MPH) 56.4 85TH PERCENTILE SPEED (MPH) 62.1

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 60 60 MPH: 26 65 MPH: 8

TABLE 18

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Two-lane, Rural
 STATION NUMBER 9 LOCATION U.S. 35 (1.5 miles east of Junction of I-69)
 NUMBER OF SESSIONS 1 DATES 3/23/76 VEHICLES MEASURED 436
 AVERAGE SPEED (MPH) 55.4 STANDARD DEVIATION (MPH) 5.6
 MEDIAN SPEED (MPH) 54.7 85TH PERCENTILE SPEED (MPH) 59.7
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH: 47 60 MPH: 14 65 MPH: 4

TABLE 19

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	<u>Two-lane, Rural</u>		
STATION NUMBER	<u>12</u>	LOCATION	<u>S.R. 25 (0.7 miles west of Americus)</u>
NUMBER OF SESSIONS	<u>1</u>	DATES	<u>2/19/76</u> VEHICLES MEASURED <u>445</u>
AVERAGE SPEED (MPH)	<u>56.2</u>	STANDARD DEVIATION (MPH)	<u>4.8</u>
MEDIAN SPEED (MPH)	<u>55.7</u>	85TH PERCENTILE SPEED (MPH)	<u>60.2</u>
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH:	<u>56</u>	60 MPH:	<u>15</u> 65 MPH: <u>4</u>

